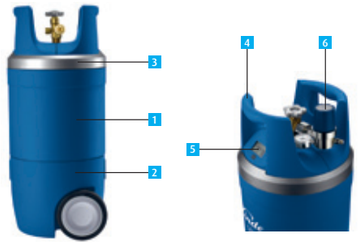
Know your GENIE®



1. HDPE jacket
2. Rugged detachable wheel unit
3. Coloured gas hazard identification ring
4. Ergonomically designed handles and valve protection
5. Digital Information Unit (DIU)
6. High performance regulator

Versions

Size	Small GENIE®			Medium GENIE®			Large GENIE®	
Gas								
Argon			•		•	•		•
Carbon Dioxide					•			•
Helium			•		•	•		•
LPG	•	•		•	•		•	•
Nitrogen			•		•	•		•
Refrigerants	•[3]	•		•[3]	•		•[3]	•
Shielding Gas			•		•	•		•

•[3] Only available for some refrigerant products

Mechanical GENIE® Simple GENIE® Digital GENIE®

Specification

Gas	Jacket size	Vessel working pressure (bar)	Water capacity (litre)	Diameter (mm)	Height (mm)	Empty weight (kg)	Full weight (kg)
Argon	Medium	300	10	320	570	15.9	21.0
	Large	300	20	320	662	22.0	32.2
Helium / Balloon gas	Medium	300	10	320	570	15.9	16.3
	Large	300	20	320	662	22.0	22.9
Nitrogen	Medium	300	10	320	570	15.9	20.0
	Large	300	20	320	662	22.0	30.3
Shielding gas mixtures	Medium	300	10	320	570	15.9	[2]
	Large	300	20	320	662	22.0	[2]
Carbon dioxide	Medium	200	10	320	570	15.9	23.4
	Large	200	20	320	662	22.0	37.0
LPG	Small	20	12.5	320	427	5.5	10.5[3]
	Medium	20	23	320	570	7	13.7[3]
	Large	20	26.2	320	662	7.5	14.7[3]
Refrigerants	Small	32	12.5	320	427	6.8	19.9[4]
	Medium	32	23	320	570	7	31.1[4]
	Large	32	26.2	320	662	7.5	35.0[4]

[1] The weights stated are typical values as the exact weight of the empty cylinder varies
[2] The total weight depends on the composition of the shielding gas. Refer to the cylinder label
[3] Based on propane
[4] Based on R134a

The cylinder label gives the full weight, see this for exact information.

Troubleshooting

The Digital Intelligence Unit will not display?
Press the button once, firmly in the centre.
If the unit fails to display, then return the GENIE® cylinder to where you bought it from.
The GENIE® cylinder will be safe to use but no contents information will be available.

FAQ's

Q: Does a normal regulator fit within the handle area?
A: No, existing regulators are too big to fit within the space between the handles of the GENIE® cylinder. GENIE® regulators are compact versions of the larger regulators, specifically designed to meet the requirements of the GENIE® cylinder. The small size of the GENIE® regulator has the advantage of being within the handle area, which means the regulator should not get damaged, should the cylinder be pushed over.
Q: Do the GENIE® regulators fit on the current steel cylinders?
A: Yes, although they have been specifically designed for use with a GENIE® cylinder, they will fit on a standard steel cylinder if that cylinder is fitted with the same valve as the GENIE® cylinder.
Q: Are the wheels only for the larger cylinder?
A: No, the wheels can be fitted to any size of the GENIE® cylinder.
Q: Why is the cylinder more stable?
A: The diameter of 320mm gives the cylinder more stability, the cylinder is less likely to topple over.
Q: Where can I buy GENIE®?
A: Contact Linde on 00000 000000000
Q: Where can I buy GENIE® accessories?
A: Contact Linde on 00000 000000000
Q: Who should I contact to report a damaged/faulty cylinder?
A: Contact Linde on 00000 0000112222

Customer service/Information and support

To explore the full range of GENIE® gas cylinders, regulators and accessories, please visit www.geniecylinders.com.
For orders and other queries please call our Customer Helpline on 0800 000 000.

Linde AG
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01-2012 Ignis Ltd.

THE LINDE GROUP

GENIE®

Cylinder user manual

Smart • Convenient • Portable – Making life easy

Safety

The GENIE® cylinder has been designed to the required EN and ISO standards. It contains either a gas at high pressure or a gas stored as liquid and should be treated with care and caution. It is important that you read this manual before using this product for the first time to ensure you are familiar with all the product features, operating instructions and guidelines for use.

Handling and transportation

The GENIE® cylinder handle has also been designed as a guard to protect the cylinder valve from accidental damage.
GENIE® cylinders should always be transported and used in an upright position, never on their side or inverted.
NEVERGENIE® cylinder handles should never be used as lifting points for cables, straps, crane hooks or anything other than hands.
For more detailed information on the handling and transportation, go to our website at www.geniecylinders.com.

Stacking

GENIE® cylinders are designed to stack together. This should always be done on flat, even ground.
⚠ **NEVER** stack more than two (2) GENIE® cylinders. Always place the largest GENIE® cylinder at the bottom of the stack
⚠ **NEVER** stack GENIE® cylinders with the regulator attached
⚠ **NEVER** stack GENIE® cylinders with the wheel unit attached
⚠ **NEVER** use GENIE® cylinders whilst stacked
If you would like to use two (2) GENIE® cylinders at the same time then use the GENIE® twin cylinder stacking adaptor.

Displays

Digital display

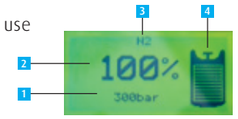
The Digital Intelligence Unit (DIU) display differs, depending on the gas supplied. It provides information on how much gas is left in the cylinder. When gas levels get below 25% and 10%, an alarm and flashing light indicate this.

Operation

To start push the button on the DIU to initiate the display. After 3 seconds the start up screen will change to one of the versions below, depending on the type of gas the cylinder contains. The DIU only remains active for 40 seconds before shutting down if no further operations have been carried out.

Start up screen for the nitrogen (N2) GENIE® cylinder

1. Cylinder pressure when full – this valve doesn't change when in use
2. Percentage of contents left
3. Gas type
4. Number of black bars indicates the contents remaining



Start up screen for the Shielding gas GENIE®

1. Flow rate units
2. Welding flow rate
3. Arrow shows direction of next flow rate
4. Gas type
5. Value is the number of minutes welding time left
6. Number of black bars indicates the contents remaining

Start up screen for helium (He)/balloon gas GENIE® cylinder

1. Balloon size chosen shows in black
2. Arrow shows direction of next balloon size
3. The approximate number of balloons that can be filled with the remaining gas at the selected balloon size
4. Number of black bars indicates the contents remaining

Extra small balloons (XS) are between 80 and 179mm (3 to 7") diameter.
Small balloons (S) are between 180 and 240mm (7.1 to 9.5") diameter.
Medium balloons (M) are between 250 and 350mm (10 to 14") diameter.
Large balloons (L) are between 380 and 480mm (15 to 18.5") diameter.
Extra large balloons (XL) are between 500 and 700mm (19 to 27.5") diameter.

If you have a helium/balloon gas or shielding gas GENIE® cylinder, a balloon size or gas flow rate will have been pre-selected. To change this, select the direction of the arrow as needed by pressing and holding the button down (increase = ⇧ and decrease = ⇩). Then press the button to find the required size of balloon or welding flow rate.

Shielding gas screen showing welding time left at 16 l/min. Arrow denotes if button is pressed next value will be 15 l/min.

Shielding gas screen showing welding time left at 15 l/min. Arrow denotes if button is pressed next value will be 16 l/min.

Please note: the readouts for the number of balloons that can be filled or the welding time remaining are for indication purposes only and should not be taken as an absolute value or guarantee as to the number of balloons that can be filled. Changing the value on the display does not alter the actual flow rate from the unit.

Alarms

There are two audio and visual alarms on the DIU:

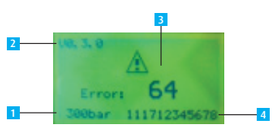
- At 25% full, the alarm sounds and warning LED flashes twice for 0.2 seconds followed by a 1 second gap then twice again. The bars on the cylinder graphic also flash
- At 10% full, the alarm sounds and warning LED flashes twice for 0.5 seconds with a 0.5 second gap. The bars on the cylinder graphic also flash
- At empty the alarm sounds and warning LED flashes twice. Cylinder symbol also flashes

Please note: These alarms only occur the first time the GENIE® cylinder is turned on after an alarm condition is met.

Error screen

Should a problem occur with the DIU an error screen will appear. The GENIE® is still safe to use but no information about the contents will be available.
Example of an error screen

1. Cylinder pressure when full
2. Version number
3. Error code
4. Serial number



DIU has no user serviceable components and under no circumstances should any attempt be made to open or interfere with the DIU unit.

Accessories

Use only approved GENIE® accessories, as non-approved items may damage the GENIE® cylinder and you may be charged a fee to repair the cylinder.
Each accessory comes with its own instructions and warranty. Please ensure that you read these thoroughly before using the product.

Using your GENIE®

Before using your GENIE® cylinder, you will need to attach a regulator, or in the case of helium used as a balloon gas, a balloon inflator. The regulators and inflators come with their own instructions.

GENIE® cylinder regulators

Safety is priority for Linde. Therefore, the GENIE® cylinder handles have been specifically designed to protect the valve and regulator.
Only GENIE® gas and pressure specific regulators should be used to guarantee performance and genuine products should be used at all times.

GENIE® cylinder regulator options

Gas Type	Max Inlet Pressure	Model	GENIE® cylinder type	GENIE® Regulator Description	Delivery Range
Ar & ArMix no H2	300 bar	GAr-300-30-x	Digital	Flow, 1 Gauge, Shielding Gas	0-30 lpm
Ar & ArMix no H2	300 bar	G2Ar-300-30-x	Simple	low, 2 Gauge, Shielding Gas	0-30 lpm
Ar & ArMix with H2	300 bar	GArH2-300-?-x	Digital	Flow, 1 Gauge, Shielding Gas H2	0-30 lpm
Ar & ArMix with H2	300 bar	G2ArH2-300-?-x	Simple	Flow, 2 Gauge, Shielding Gas H2	0-30 lpm
CO2	300 bar	G2CO2-200-17-x	Simple	Pressure, 2 Gauge, CO2	0-10 bar
Helium	300 bar	GHe-300-xx	Digital	Pressure, 1 Gauge, helium	0-10 bar
LPG, Fuels	20 bar	GLPG-24-x	Mechanical	Pressure, 1 Gauge, Fuel	0-4 bar
LPG, Fuels	20 bar	GLPG-24-x	Simple	Pressure, 1 Gauge, Fuel	0-4 bar
Nitrogen	300 bar	GN2-300-30-x	Digital	Pressure, 1 Gauge, Nitrogen	0-10 bar
Nitrogen	300 bar	GN2HP-300-30-x	Digital	High Pressure, 1 Gauge, Nitrogen	0-50 bar
Nitrogen	300 bar	G2N2-300-30-x	Simple	Pressure, 2 Gauge, Nitrogen	0-10 bar
Oxygen	300 bar	GO2-300-?-x	Digital	Pressure, 1 Gauge, O2	10 bar
Oxygen	300 bar	G2O2-300-?-x	Simple	Pressure, 2 Gauge, O2	10 bar

Note: the final digit in the model number relates to the country designated outlet connection

Fitting regulators
Regulators are designed for use with specific gases or groups of gases and must only be fitted to their respective cylinders. Detailed instructions on how to fit and check your regulator can be found on www.geniecylinders.com/manual.
Main instruction points are:

1. Ensure the regulator is in good condition before fitting to the cylinder. Gauges should be intact with threads and seats undamaged
2. Clean the cylinder valve and regulator threads using a dry, clean piece of lint free cloth to remove dirt, moisture, oil and grease particles
3. Carefully thread the regulator onto the valve, ensuring that you do not cross thread, and tighten with the appropriate spanner
4. DO NOT OVERTIGHTEN, as this will damage your regulator
5. Turn the regulator knob counter clockwise until it stops
6. Slowly open the cylinder value
7. Turn the regulator knob clockwise to set normal delivery pressure or flow

⚠ **NEVER** dismantle or modify a regulator to make it fit
⚠ **NEVER** use adaptors between the cylinder valve and the regulator to make it fit
⚠ **NEVER** use oil or lubricants on the cylinder valve or regulator threads. Oil or lubricants can trap dirt and make the regulator difficult to fit or leak, they can also be carried into the regulator and cause a malfunction. If the cylinder contains oxygen then any oil or lubricants will ignite in the presence of oxygen

Only enough force should be used to provide a leak tight seal between the cylinder valve and the regulator. If excessive force is use the cylinder may move within its outer jacket. While this is not a safety hazard, should this occur it is an indication that excessive force has been used in tightening the regulator to the cylinder.

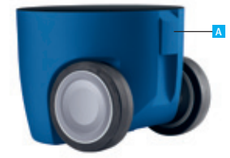
Removing regulators

1. Close the cylinder valve
2. Release all gas from the regulator and system until the gauge(s) read zero
3. Turn the regulator knob counter clockwise until it stops
4. Loosen the regulator using the appropriate spanner and then remove the regulator

Store the regulator in its box, in a clean, dry environment.

Attaching the wheel unit
The GENIE® wheel unit is suitable for any size of GENIE® cylinder.
The instructions are:

1. Place the wheel unit on a flat surface
2. Ensure the two (2) clips A are in the open position with their upper faces away from the side of the wheel unit
3. On the inside of the wheel unit you will see three locating pillars, two at the front and one over the axle. On the underside of the GENIE® cylinder you will see three indents which you need to align with the pillars.
   Note: If your GENIE® cylinder is fitted with a DIU this will always face away from the axle
4. Lift the GENIE® cylinder and place it into the wheel unit
5. Push the claw of the clip into the opening on the base of the GENIE® cylinder and push down to lock in position
6. To release the wheel unit from the GENIE® cylinder simply open the clips and lift the cylinder from the wheel unit



Daily cylinder use
GENIE® cylinders are designed for either continuous or intermittent use. At the end of any period of use, or when you are leaving the cylinder unattended, close the cylinder valve by turning the wheel in a CLOCKWISE direction.

Children and GENIE® cylinder

Children should never be allowed to use or operate a GENIE® cylinder.

Maintenance and care

The GENIE® cylinder has been designed to require no maintenance from the customer at all. While the HDPE cylinder jacket has been made as strong and durable as possible, it can still be damaged by misuse.
Should you wish to clean the GENIE® cylinder, use a mild detergent such as washing up liquid diluted with warm water.
Use a clean cloth to sponge the GENIE® cylinder clean.
⚠ **NEVER** immerse a GENIE® cylinder in water
⚠ **NEVER** use a power washer on a GENIE® cylinder
⚠ **NEVER** use chemicals or solvents on a GENIE® cylinder

Damage

Check the GENIE® cylinder for damage before leaving your collection point. When returning the GENIE® cylinder, the unit will be checked for damage. The store will have a set of acceptable and unacceptable damage standards to which your item will be assessed.
Should the GENIE® cylinder be damaged, you will be required to reimburse Linde for the damage you have caused.
Note: A full description of the acceptable and unacceptable damage standards are available on www.geniecylinders.com and on posters inside retail outlets.